Protective claims

- A hair-treatment agent with a content of a combination of
 - (A) a terpolymer constructed from vinylpyrrolidone, methacrylamide and vinylimidazole and
 - (B) at least one active ingredient or additive chosen from viscosity-modifying substances, haircare substances, hair-setting substances, silicone compounds, photoprotective substances, oils, waxes, preservatives, pigments, soluble dyes, particulate substances, and surfactants

in a suitable cosmetic base.

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The agent as claimed in claim 1, characterized in 2. that the terpolymer (A) is present in an amount of from 0.1 to 10% by weight and that the viscositymodifying substance present in an amount of from 20 0.1 to 5% by weight is a thickening polymer, chosen from copolymers of at least one monomer type, which is chosen from acrylic acid and methacrylic acid, and at least one which is chosen from monomer type, esters acid ethoxylated fatty 25 acrylic and crosslinked polyacrylic acid; crosslinked copolymers of at least one first monomer type, which is chosen from acrylic acid and methacrylic acid, and at least one second monomer type, which is chosen from esters of acrylic acid with C10- to C30-30 alcohols; copolymers of at least one first monomer type, which is chosen from acrylic acid and methacrylic acid, and at least one second monomer type, which is chosen from esters of itaconic acid 35 and ethoxylated fatty alcohol; copolymers of at least one first monomer type, which is chosen from acrylic acid and methacrylic acid, at least one second monomer type, which is chosen from esters itaconic acid and ethoxylated C10- to C305

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alcohol and a third monomer type, chosen from C1to C4-aminoalkyl acrylates; copolymers of two or more monomers chosen from acrylic acid, acrylic acid, acrylic esters and methacrylic esters; copolymers of vinylpyrrolidone and ammonium acryloyldimethyltaurate; copolymers of ammonium acryloyldimethyltaurate and monomers chosen from esters of methacrylic acid and ethoxylated fatty alcohols; hydroxyethylcellulose; hydroxypropylcellulose; hydroxypropylguar; glyceryl acrylate; glyceryl polymethacrylate; copolymers of at least one C2-, C3- or C4-alkylene and styrene; hydroxypropyl starch polyurethanes; phosphate; polyacrylamide; copolymer of maleic anhydride and methyl vinyl ether crosslinked with decadiene; carob seed flour; guar gum; xanthan; dehydroxanthan; carrageenan; karaya gum; hydrolyzed corn starch; copolymers of polyethylene oxide, fatty alcohols and saturated methylenediphenyl diisocyanate.

3. The agent as claimed in one of the preceding characterized that the haircare or in hair-setting substance present is a polymer with anionizable chosen 25 anionic orgroups, terpolymers of acrylic acid, ethyl acrylate and crosslinked N-tert-butylacrylamide; or uncrosslinked vinyl acetate/crotonic acid copolymers; terpolymers of tert-butyl acrylate, ethyl acrylate and methacrylic acid; sodium polystyrenesulfonate; 30 copolymers of vinyl acetate, crotonic acid and vinyl propionate; copolymers of vinyl acetate, crotonic acid and vinyl neodecanoate; aminomethylpropanol acrylate copolymers; copolymers of vinylpyrrolidone and at least one further monomer 35 chosen from acrylic acid, methacrylic acrylic esters and methacrylic esters; copolymers of methyl vinyl ether and maleic monoalkyl esters; aminomethylpropanol salts of copolymers of allyl

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methacrylate and at least one further monomer acid, methacrylic chosen from acrylic acid, acrylic esters and methacrylic esters; crosslinked copolymers of ethyl acrylate and methacrylic acid; copolymers of vinyl acetate, mono-n-butyl maleate and isobornyl acrylate; copolymers of two or more chosen from acrylic acid, methacrylic acrylic and methacrylic acid, esters copolymers of octylacrylamide and at least monomer chosen from acrylic acid, methacrylic acid. acrylic esters and methacrylic polyesters of diglycol, cyclohexanedimethanol, isophthalic acid and sulfoisophthalic acid.

15 4. The agent as claimed in one of the preceding characterized in that the haircare hair-setting substance present is a polymer with cationizable cationic groups chosen cationic cellulose derivatives of hydroxyethyl-20 cellulose and diallyldimethylammonium chloride; cationic cellulose derivatives of hydroxyethylcellulose and with trimethylammonium substituted poly(dimethyldiallylammonium epoxide; copolymers of acrylamide and dimethyldiallyl-25 ammonium chloride; quaternary ammonium polymers formed by the reaction of diethyl sulfate and a copolymer of vinylpyrrolidone and dimethylaminoethyl methacrylate; quaternary ammonium polymers chloride methylvinylimidazolium and 30 pyrrolidone; polyquaternium-35; polymer of methylammonium-ethyl methacrylate chloride; polyquaternium-57; dimethylpolysiloxanes terminally substituted by quaternary ammonium groups; copolydimethylaminopropylvinylpyrrolidone, methacryloylaminopropyl-35 methacrylamide and lauryldimethylammonium chloride; chitosan and thereof; hydroxyalkylchitosans salts and salts alkylhydroxyalkylchitosans thereof; and salts alkyl N-hydroxyalkylchitosan thereof; ethers;

N-hydroxyalkylchitosan benzyl ethers; copolymer of vinylcaprolactam, vinylpyrrolidone and dimethylaminoethyl methacrylate; copolymers of vinylpyrrolidone and dimethylaminoethyl methacrylate, copolymers of vinylpyrrolidone, vinylcaprolactam and dimethylaminopropylacrylamide; polyesters or oligoesters constructed from at least one first monomer type which is chosen from hydroxy acid substituted by at least one quaternary ammonium group.

5. The agent as claimed in one of the preceding claims, characterized in that the haircare hair-setting substance present is a zwitterionic 15 and/or an amphoteric polymer chosen from copolymers of octylacrylamide, acrylic acid, butylaminomethacrylate methacrylate, methyl ethyl hydroxypropyl methacrylate; copolymers of lauryl acrylate, stearyl acrylate, ethylamine oxide meth-20 acrylate and at least one monomer chosen from acrylic acid, methacrylic acid, acrylic esters and methacrylic esters; copolymers of methacryloylethylbetaine and at least one monomer chosen from methacrylic acid and methacrylic 25 copolymers of acrylic acid, methyl acrylate and methacrylamidopropyltrimethylammonium chloride; oligomers or polymers preparable from quaternary betaines quaternary croton croton or esters.

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6. The agent as claimed in one of the preceding characterized in that the haircare claims, is hair-setting substance present а nonionic polymer chosen from polyvinylpyrrolidone, 35 vinylcaprolactam, vinylpyrrolidone/vinyl copolymers, polyvinyl alcohol, isobutylene/ethylmaleimide/hydroxyethylmaleimide copolymer; copolymers of vinylpyrrolidone, vinyl acetate and vinyl propionate.

- 7. The agent as claimed in one of the preceding in characterized that at least claims, silicone compound is present chosen from cyclic linear polydimethylsiloxanes, dimethylsiloxanes, 5 block polymers of polydimethylsiloxane and polyethylene oxide and/or polypropylene oxide, polydimethylsiloxanes with terminal or lateral polyethylene oxide or polypropylene oxide radicals, polydimethylsiloxanes with terminal hvdroxyl groups, phenyl-substituted polydimethylsiloxanes, 10 silicone emulsions, silicone elastomers, silicone gums silicone and amino-substituted waxes. silicones.
- 15 8. The agent as claimed in one of the preceding claims, characterized in that at least one photoprotective substance is present chosen from 2-ethylhexyl 4-methoxycinnamate, methyl methoxycinnamate, 2-hydroxy-4-methoxybenzophenone-5-sulfonic acid and polyethoxylated p-aminobenzoates.
- 9. The agent as claimed in one of the preceding claims, characterized in that at least one oil or is present chosen from paraffin 25 polyolefin waxes, wool wax, wool wax alcohols, candelilla wax, olive wax, carnauba wax, apple wax, hydrogenated fats, fatty acid esters, fatty acid glycerides, fatty acid triglycerides, mineral oils, isoparaffin oils, paraffin oils, squalane, sunflower oil, coconut oil, castor 30 oil, lanolin oil, jojoba oil, corn oil, soybean oil.
- The agent as claimed in one of the preceding 10. 35 claims, characterized in that at least hair-setting substance is present haircare orchosen from betaine; panthenol; panthenyl ethyl ether; sorbitol; protein hydrolysates; extracts; A-B block copolymers of alkyl acrylates

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and alkyl methacrylates; A-B block copolymers of alkyl methacrylates and acrylonitrile; A-B-A block copolymers of lactide and ethylene oxide; A-B-A block copolymers of caprolactone and ethylene oxide: A-B-C block copolymers of alkylene or alkadiene compounds, styrene and alkyl methacrylates; A-B-C block copolymers of acrylic acid, styrene and alkyl methacrylates; star-shaped block copolymers; hyperbranched polymers, dendrimers, intrinsically electrically conductive 3,4-polyethylenedioxythiophenes and intrinsically electrically conductive polyanilines.

The agent as claimed in one of the preceding 11. 15 characterized in that at least claims, one surfactant is present chosen from addition products of from 2 to 30 mol of ethylene oxide and/or 1 to 5 mol of propylene oxide onto C8- to C22-fatty alcohols, addition products of from 2 to 20 30 mol of ethylene oxide and/or 1 to 5 mol of propylene oxide onto C12- to C22-fatty acids, addition products of from 2 to 30 mol of ethylene oxide and/or 1 to 5 mol of propylene oxide onto alkyl phenols having 8 to 15 carbon atoms in the 25 alkyl group, C12- to C22-fatty acid monodiesters of addition products of from 1 to 30 mol of ethylene oxide onto glycerol, addition products of from 5 to 60 mol of ethylene oxide onto castor oil or onto hydrogenated castor oil, mono-, di- or 30 triesters of phosphoric acid with products of from 2 to 30 mol of ethylene oxide onto C8- to C22-fatty alcohols, esters of sucrose and one or two C8- to C22-fatty acids, esters of sorbitan and one, two or three C8- to C22-fatty 35 acids and a degree of ethoxylation of from 4 to 20, polyglyceryl fatty acid esters of one, two or more C8= to C22-fatty acids and polyglycerol having 2 to 20 glyceryl units, alkyl glycosides, C8-22-alkyldimethylbenzylammonium compounds,

C8-22-alkyltrimethylammonium compounds, C8-22alkyldimethylhydroxyethylammonium compounds, di(C8-22-alkyl)dimethylammonium compounds, C8-22alkylpyridinium salts, C8-22alkylamidoethyltrimethylammonium ether sulfates, C8-22-alkylmethylamine C8-22oxides, alkylaminoethyldimethylamine oxides.

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- agent as claimed in one of the preceding 12. The 10 claims, characterized in that a preservative is chosen from phenoxyethanol, present paraben, butyl paraben, ethyl paraben, isobutyl paraben, isopropyl paraben, methyl paraben, propyl paraben, methyldibromoglutaronitrile, hydantoin. 15
- The agent as claimed in one of the preceding 13. claims, characterized in that at least one pigment chosen from titanium dioxide present 20 77891), black iron oxide (CI 77499), yellow iron oxide (CI 77492), red and brown iron oxide (CI 77491), manganese violet (CI 77742), ultramarine (CI 77007), chromium oxide hydrate (CI 77289), Prussian blue (CI 77510), bismuth oxychloride (CI 25 77163), carmine (cochineal), pearlescent colored pigments based on mica which are coated with a metal oxide or a metal oxychloride, such as bismuth oxychloride, titanium dioxide or further color-imparting optionally substances, such as iron oxides, iron blue, ultramarine or 30 carmine and where the color is determined by varying the layer thickness.
- The agent as claimed in one of the preceding 14. characterized that at least 35 claims, in one chosen from particulate substance is present silica, silicates, aluminates, clay earths, mica, insoluble metal salts, metal oxides, minerals and insoluble polymer particles.

- 15. The agent as claimed in one of claims 1 to 14, characterized in that it is in the form of a gel, in the form of a viscous lotion or in the form of a spray gel which is sprayed with a mechanical device, comprises at least one thickening polymer according to claim 2 and has a viscosity of at least 250 mPa s (measured using a Bohlin rheometer CS, measurement body C25 at 25°C and a shear rate of 50 s⁻¹).
- 16. The agent as claimed in one of claims 1 to 14, characterized in that it is in the form of an O/W emulsion, a W/O emulsion or a microemulsion, and comprises at least one oil or wax according to claim 9, and at least one surfactant according to claim 11.
- 17. The agent as claimed in one of claims 1 to 14,
 20 characterized in that it is in the form of a spray product and is either in combination with a mechanical pump spray device or in combination with at least one propellant chosen from propane, butane, dimethyl ether and fluorinated hydrocarbons.
- The agent as claimed in one of claims 1 to 14, 18. characterized in that it is in the form of a foamable product in combination with a device for foam-forming 30 foaming, comprises at least one surfactant or at least one foam-forming polymer and is either in combination with a mechanical pump foam device or in combination with at least propellant chosen from propane, butane, dimethyl ether and fluorinated hydrocarbons. 35
 - 19. The agent as claimed in one of claims 1 to 14, characterized in that it is in the form of a hair wax.

The agent as claimed in one of claims 1 to 14, 20. characterized in that it is in the form of a foamable product in combination with a device for 5 foaming, comprises at least one foam-forming surfactant or at least one foam-foaming polymer and is either in combination with a mechanical pump foaming device or in combination with at least one propellant, and the active ingredient or additive is chosen from chitosan, chitosan salts, 10 cationic cellulose chitosan derivatives, pounds, copolymers of vinylpyrrolidone, caprolactam and a basic acrylamide monomer or mixtures of these polymers.

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- 21. The agent as claimed in claim 20, characterized in that the active ingredient or additive is chosen from chitosan, chitosan salts, copolymers of hydroxyethylcellulose and diallyldimethylammonium chloride (polyquaternium-4), copolymers of vinyl-pyrrolidone, vinylcaprolactam and dimethylamino-propylacrylamide or mixtures of these polymers.
- 22. The agent as claimed in claim 20 or 21, characterized in that either copolymers of hydroxyethylcellulose and diallyldimethylammonium chloride (polyquaternium-4) or copolymers of vinylpyrrolidone, vinylcaprolactam and dimethylaminopropylacrylamide are present.

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The agent as claimed in one of claims 20 to 22, 23. characterized in that either copolymers of hydroxyethylcellulose and diallyldimethylammonium chloride (polyquaternium-4), orcopolymers vinylcaprolactam and dimethylvinylpyrrolidone, aminopropylacrylamide, or at least one chitosan salt are present.